

Amendment to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A speech complementing apparatus comprising:
means for repeatedly and continuously detecting whether or not there is a filled pause in a user's speech, wherein said filled pause is a trigger for complementing;
means for recognizing said user's speech in parallel with said detecting whether or not there is said filled pause;
means for complementing a language part to the fragment of the language spoken by the user when said filled pause is detected by said means for detecting; and
means for outputting a result of recognizing by said means for recognizing when no filled pause was detected.
~~speech input means for inputting a speech;~~
~~speech recognition means for recognizing the inputted speech;~~
~~detecting means for detecting a word fragment in the result of recognizing by said speech recognition means, the fragment giving information about which part to be complemented; and~~
~~complementing means for complementing the result of recognizing by said speech recognition means based on the detected word fragment~~
2. (canceled).
3. (currently amended) The speech complementing apparatus as claimed in claim 21, wherein said means for complementing complements said language part after said filled pause with a clue, which is a fragment before said filled pause of the speech, when said filled pause

was detected, wherein said word fragment is the result of recognizing before said period of the filled pause.

4. (currently amended) The speech complementing apparatus as claimed in claim 1, wherein ~~in said detecting means, the word fragment to be complemented is specified by detecting a predefined key-word said means for complementing considers a specified key-word as a specified string to replace a specific key-word based on a relation of words around the specific key-word, when responding to said specific key-word including said filled pause. in the result of recognizing by said speech recognition means.~~

5. (canceled).

6. (currently amended) The speech complementing apparatus as claimed in claim 14, further comprising: ~~selecting means for selecting a complementary candidate when said word fragment is complemented and a plurality of complementary candidates are existing. output means for outputting a list of candidates for complementing when there are a plurality of candidates for complementing; and~~

input receiving means for receiving a selection from the user of said plurality of candidates, wherein when there is only one candidate, the apparatus performs one of: asking the user's confirmation with said output means, or inputting automatically the one candidate.

7. (currently amended) A speech complementing method wherein a system recognizes a user's speech, said method comprising:

(a) detecting repeatedly and continuously whether or not there is a filled pause in the user's speech, wherein said filled pause is a trigger for complementing;

(b) recognizing said user's speech in parallel with (a);

(c) complementing a language part to a fragment of the language spoken by the user by said system when said filled pause is detected; and

(d) outputting a result of said recognizing when no filled pause is detected.

comprising:

~~a speech input step for inputting a speech;~~

~~a speech recognition step for recognizing the inputted speech;~~

~~a detecting step for detecting a word fragment in the result of recognizing by said speech recognition step, the fragment giving information about which part to be complemented; and~~

~~a complementing step for complementing the result of recognizing by said speech recognition step based on the detected word fragment.~~

8. (canceled)

9. (currently amended) The speech complementing method as claimed in claim 8~~7~~, wherein

(c) comprises said complementing the language part following said filled pause with a clue which is a fragment of the user's speech occurring before said filled pause.

~~word fragment is the result of recognizing before said period of the filled pause.~~

10. (currently amended) The speech complementing method as claimed in claim 7, wherein

~~in said detecting step, the word fragment to be complemented is specified by detecting a predefined responding to a specific key-word including said filled pause, the specified key-word is considered as a specified string to replace the specific key-word based on a relation of around the specific key-word.~~

~~string in the result of recognizing in said speech recognition step.~~

11. (canceled).

12. (currently amended) The speech complementing method as claimed in claim 7, wherein
(c) further comprises:

outputting a list of the candidates for complementing to a screen or in audio form,
when there are a plurality of candidates for complementing;
receiving a selection of said plurality of candidates from said user; and
when there is only one candidate, performing one of: asking confirmation of said
only one candidate from said user, or inputting said only one candidate automatically.
~~further comprising a selecting step for selecting a complementary candidate when said word~~
~~fragment is complemented and a plurality of complementary candidates are existing.~~

13. (currently amended) A recording medium which stores a program executed in a complementing apparatus, said program comprising:

a speech input step for inputting a speech;
a first detecting step for detecting repeatedly and continuously whether or not there is a filled pause in the inputted speech;
a speech-recognizing step for recognizing said user's the inputted speech in parallel with said first detecting step, wherein a recognition result is generated;
a detecting step for detecting a word fragment in the result of recognizing by said speech recognition step, the fragment giving information about which part to be complemented; and
a second detecting step for detecting a word fragment being a base to be complemented
ing step for complementing the in said recognition result of recognizing by said when there is the filled pause in said first detecting step speech recognition step based on the detected word fragment.;
a complementing step for complementing said recognition result, based on the detected word fragment;
an outputting step for outputting said recognition result when no filled pause was detected.

14. (currently amended) The recording medium as claimed in claim 13, wherein in said second detecting step, the word fragment ~~to-be-complemented~~ is specified by detecting ~~the-a~~ period of the filled pause in the ~~inputted~~-speech inputted in said speech input step.

15. (currently amended) The recording medium as claimed in claim 14, wherein said word fragment is the said recognition result of recognizing before said period of the filled pause.

16. (currently amended) The recording medium as claimed in claim 13, wherein in said second detecting step, ~~the said~~ word fragment ~~to-be-complemented~~ is specified by detecting a predetermined~~fined~~ key-word string in the result of recognizing in said ~~speech~~ recognizing step.

17. (currently amended) The recording medium as claimed in claim 16, wherein said word fragment is the result of recognizing after said predefined~~predefined~~ key-word string.

18. (currently amended) The recording medium as claimed in claim 13, ~~said program~~ further comprises~~comprising~~:

a selecting step for selecting a complementary candidate ~~when said word fragment is for complementing~~ and if there are thea plurality of complementary candidates when said word fragment is complemented by said complementing step ~~are existing~~.

19. (new) The speech complementing method as claimed in claim 7, further comprising:

generating a candidate of speech forward complementing dynamically by tracing toward leaves of a word dictionary of a tree structure, considering an effective hypothesis as a seed.

20. (new) The speech complementing method as claimed in claim 7, further comprising:

- recognizing from a middle of a spoken word; and
- speech-backward complementing based on the result of said recognizing.

21. (new) The speech complementing method as claimed in claim 20, wherein said system comprises a word dictionary of a tree structure and an entry node table, and wherein the method further comprises:

- registering a root from which said recognizing starts in said entry node table;
- adding syllables of words in said word dictionary temporarily to said entry node table;
- obtaining highest hypotheses from the hypotheses which reach to leaves of said tree structure and are numbered in order of high likelihood so that the highest hypotheses obtained become candidates of complementing for said speech backward complementing.

22. (new) The speech complementing method as claimed in claim 20, wherein said system comprises a word dictionary of a tree structure and a entry node table, and wherein the method further comprises:

- registering a root from which said recognizing starts in said entry node table;
- selecting candidates for complementing when a top of a word is uttered by the user by registering words temporarily on said word dictionary, wherein said words to be registered are ones in which the end of an unuttered phoneme string of each candidate is a leaf.

23. (new) The speech complementing method as claimed in claim 19, wherein said system comprises a word dictionary of a tree structure and a entry node table, and wherein the method further comprises:

- registering a root from which said recognizing starts in said entry node table;

adding a seed of a candidate for complementing temporarily to said entry node table, wherein said seed is used when said candidate for complementing is generated, as a root, selection of the plurality of candidates for complementing by uttering a latter part of a word is made possible.

24. (new) The speech complementing method as claimed in claim 7, further comprising:
presenting a plurality of candidates for complementing to a user;
accepting a selection of a user to complement by the selected candidate for complementing; and

automatically complementing with a candidate when a number of candidates for complementing is one.

25. (new) The speech complementing method as claimed in claim 7, further comprising:
(e) determining whether or not a wild card key-word is included in the result of recognizing just before said filled pause when responding to detecting by (a);
(f) executing speech backward complementing when said filled pause is present; and
(g) executing speech forwarding complementing when said filled pause is not present.

26. (new) The speech complementing method as claimed in claim 12, further comprising:
selecting a remaining part, wherein the system complemented the part of a fragment of a language spoken by the user, after the system displays the list of the candidates for complementing and when the user selects the plurality of candidates for complementing, by recognizing a speech spoken to read by the user.